WEST Search History

DATE: Saturday, August 17, 2002

Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT,PGPB; PLUR=YES; OP=ADJ		
L15	l14 and l12	2	L15
L14	l2 and l8 and l9	1415	L14
L13	l10 and l12	1	L13
L12	l5 and l6 and l9	383	L12
L11	l5 and l5 and l9	4056	L11
L10	l8 and l2 and l4	532	L10
L9	fibers or fibres	346002	L9
L8	elastic same (sheet or web)	21922	L8
L7	stretchable same composite same sheet	139	L7
L6	ethylene propylene butene	5006	L6
L5	ethylene propylene copolymer	10401	L5
L4	elastomer	80338	L4
L3	olefin or styrene or ester or urethane	405751	L3
L2	fibrous same (assembly or sheet or web)	20253	L2
L1	elastic same sheet	17397	L1

END OF SEARCH HISTORY

L1: Entry 1 of 1 File: DWPI Aug 9, 1990

DERWENT-ACC-NO: 1990-286192
DERWENT-WEEK: 199038

TITLE: Stretch nonwoven fabric for sports:wear etc. - based on two fibres developing crimp at different temps.

PRIORITY-DATA: 1989JP-0014666 (January 23, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 02200859 A	August 9, 1990		000	

INT-CL (IPC): A61F 13/00; A61K 9/70; D01F 8/06; D04H 3/14

ABSTRACTED-PUB-NO: JP 02200859A
BASIC-ABSTRACT:

A stretch nonwoven fabric comprises uniting by fusion between constituting fibres comprising 5-40 wt.% of A and 60-95 wt.% of B fibres. Fibre A comprises low m.pt. resin component having m.pt. (Tm deg.C) shown by Tm is 100-150 and high m.pt. resin component having m.pt. shown by Tm is 150-300. Fibre A is latent crimping heat fusing composite fibre developing crimp at m.pt. of low m.pt. resin component. Fibre B is latent crimping fibre developing crimp at heat treating temp. (T deg.C) shown by T = 120-180.

The low m.pt. resin component is pref. polyethylene, ethylene-propylene-butene-1 terpolymer and ethylene-propylene copolymer. The high m.pt. resin component is pref. polybutylene terephthalate and polypropylene. The stretch nonwoven fabric contains less thanm 15% of cellulose fibre such as viscose rayon for imparting hygroscopic property.

USE/ADVANTAGE - The stretch nonwoven fabric is useful for sportswear, interlining cloth, wadding of outer garment, glove, cushion and mat, bandage, gauze and sanitary items.

L2: Entry 1 of 1 File: DWPI Jun 15, 1999

DERWENT-ACC-NO: 1999-400626
DERWENT-WEEK: 199937

TITLE: Non-woven fabric laminate body for disposable diaper and moist cloth materials - has horizontally expandable spun bond non-woven fabrics of propylene and ethylene group polymers having predetermined property with composite fibers at specified weight ratio

PRIORITY-DATA: 1997JP-0324247 (November 26, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11158766 A	June 15, 1999		008	D04H013/00

INT-CL (IPC): B32 B 5/26; D04 H 3/00; D04 H 3/14; D04 H 3/16; D04 H 13/00

ABSTRACTED-PUB-NO: JP 11158766A
BASIC-ABSTRACT:

NOVELTY - The laminate body has at least one layer each of a horizontally expandable spun bond non-woven fabrics which draws by 1.2-3.0 times under heat and an elastic melt blown non-woven fabric layer in vertical direction. The spun bond fabrics contain propylene and ethylene group polymers of Mw/Mn which is in the range of 2-4 and 1.5-4 with composite fibers at 5:95-30:70 by weight ratio.

USE - For rubber strings and elastic members in base fabrics of disposable diaper and moist cloth materials including sanitation materials, disposable pocket body warmers, stretch tape, gloves, supporters and clothing goods.

ADVANTAGE - A laminated body having an excellent air permeability and flexibility with large tensile strength can be cheaply manufactured with excellent process ability by virtue of elasticity horizontally and small expansion vertically.
DESCRIPTION OF DRAWING(S) - The drawing shows the model cross sections of a core sheath type composite fiber.

Search Results - Record(s) 1 through 3 of 3 returned.

☑ 1. Document ID: US 5883028 A

L6: Entry 1 of 3 File: USPT Mar 16, 1999

US-PAT-NO: 5883028
DOCUMENT-IDENTIFIER: US 5883028 A

TITLE: Breathable elastic film/nonwoven laminate

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morman; Michael Tod	Alpharetta	GA		
Morgan; Linda Jeanette	Dunwoody	GA		
Cohen; Bernard	Berkeley Lake	GA		

US-CL-CURRENT: 442/394; 156/229, 428/198, 428/448, 428/910, 442/382, 442/399, 442/400, 442/401

ABSTRACT:

A breathable elastic laminate is formed by bonding a film including an elastic water vapor-soluble polymer to a neckable nonwoven web such that when the film is relaxed, the web is in a necked state. The breathable laminate is stretchable in a direction parallel to the narrowing or necking of the web. The laminate possesses excellent water vapor permeability but acts as a barrier to the passage of odor-causing chemicals including ammonia.

45 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

☑ 2. Document ID: US 5540976 A

L6: Entry 2 of 3 File: USPT Jul 30, 1996

US-PAT-NO: 5540976
DOCUMENT-IDENTIFIER: US 5540976 A

TITLE: Nonwoven laminate with cross directional stretch

DATE-ISSUED: July 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shawver; Susan E.	Roswell	GA		
Collier, IV; Leslie W.	Roswell	GA		
Estey; Paul W.	Cumming	GA		

US-CL-CURRENT: 428/198; 428/373, 428/374, 428/903, 442/353, 442/361, 442/364, 442/373, 442/384, 604/358, 604/367, 604/369

ABSTRACT:

There is provided a nonwoven fabric laminate having cross-directional stretch properties. The laminate is comprised of at least three layers. The outer layers are spunbond nonwoven fiber webs which are made of crimped or crimpable fibers. The inner layer is an elastomeric polymer layer which may itself be composed of one or more thinner layers. The layers are preferably produced by sequentially depositing them onto a moving forming wire and bonding them together by a method excluding hydroentanglement to form the laminate.

19 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☑ 3. Document ID: US 4720415 A

L6: Entry 3 of 3 File: USPT Jan 19, 1988

US-PAT-NO: 4720415
DOCUMENT-IDENTIFIER: US 4720415 A

TITLE: Composite elastomeric material and process for making the same

DATE-ISSUED: January 19, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vander Wielen; Michael J.	Roswell	GA		
Taylor; Jack D.	Roswell	GA		

US-CL-CURRENT: 428/152; 156/163, 156/164, 156/183, 156/290, 428/198, 428/903

ABSTRACT:

A method of producing a composite elastic material comprises stretching an elastic web to elongate it, for example, elongating a nonwoven web of meltblown elastomeric fibers, and bonding the elongated web to at least one gatherable web, such as a spunbonded polyester fiber material, under conditions which soften at least a portion of the elastic web to form the bonded composite web of elastic material. The composite material is relaxed immediately after the bonding to prevent the elastic web from losing its ability to contract from the stretched dimensions which it assumed during the bonding step. Such immediate relaxation of the composite material after the bonding step results in the elastic web retaining its ability to contract so that, upon termination of the elongating force, the elastic web contracts to form gathers in the gatherable web. The bonding may be effectuated by pattern embossing overlaid elastic and gatherable webs with at least portions of the elastic web heated to at least its softening temperature. The resultant composite elastic

material comprises a coherent elastic web which is bonded to at least one coherent gatherable web whereby the gatherable web is extensible and contractible with the elastic web upon stretching and relaxing of the composite material.

44 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

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Term	Documents
(4 AND 5).USPT,PGPB.	3
(L4 AND L5).USPT,PGPB.	3

Display Format: - Change Format

Previous Page Next Page

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: JP 02200859 A

L1: Entry 1 of 1 File: DWPI Aug 9, 1990

DERWENT-ACC-NO: 1990-286192
DERWENT-WEEK: 199038

TITLE: Stretch nonwoven fabric for sports:wear etc. - based on two fibres developing crimp at different temps.

PRIORITY-DATA: 1989JP-0014666 (January 23, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 02200859 A	August 9, 1990		000	

INT-CL (IPC): A61F 13/00; A61K 9/70; D01F 8/06; D04H 3/14

ABSTRACTED-PUB-NO: JP 02200859A
BASIC-ABSTRACT:

A stretch nonwoven fabric comprises uniting by fusion between constituting fibres comprising 5-40 wt.% of A and 60-95 wt.% of B fibres. Fibre A comprises low m.pt. resin component having m.pt. (Tm deg.C) shown by Tm is 100-150 and high m.pt. resin component having m.pt. shown by Tm is 150-300. Fibre A is latent crimping heat fusing composite fibre developing crimp at m.pt. of low m.pt. resin component. Fibre B is latent crimping fibre developing crimp at heat treating temp. (T deg.C) shown by T = 120-180.

The low m.pt. resin component is pref. polyethylene, ethylene-propylene-butene-1 terpolymer and ethylene-propylene copolymer. The high m.pt. resin component is pref. polybutylene terephthalate and polypropylene. The stretch nonwoven fabric contains less thanm 15% of cellulose fibre such as viscose rayon for imparting hygroscopic property.

USE/ADVANTAGE - The stretch nonwoven fabric is useful for sportswear, interlining cloth, wadding of outer garment, glove, cushion and mat, bandage, gauze and sanitary items.

Term	Documents
JP-02200859-$	0
JP-02200859-A.DWPI.	1
JP-02200859-$.DID..DWPI.	1
(JP-02200859-$.DID.).DWPI.	1

Display Format: REV Change Format

Previous Page Next Page

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: JP 11158766 A

L2: Entry 1 of 1 File: DWPI Jun 15, 1999

DERWENT-ACC-NO: 1999-400626
DERWENT-WEEK: 199937

TITLE: Non-woven fabric laminate body for disposable diaper and moist cloth materials - has horizontally expandable spun bond non-woven fabrics of propylene and ethylene group polymers having predetermined property with composite fibers at specified weight ratio

PRIORITY-DATA: 1997JP-0324247 (November 26, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11158766 A	June 15, 1999		008	D04H013/00

INT-CL (IPC): B32 B 5/26; D04 H 3/00; D04 H 3/14; D04 H 3/16; D04 H 13/00

ABSTRACTED-PUB-NO: JP 11158766A
BASIC-ABSTRACT:

NOVELTY - The laminate body has at least one layer each of a horizontally expandable spun bond non-woven fabrics which draws by 1.2-3.0 times under heat and an elastic melt blown non-woven fabric layer in vertical direction. The spun bond fabrics contain propylene and ethylene group polymers of Mw/Mn which is in the range of 2-4 and 1.5-4 with composite fibers at 5:95-30:70 by weight ratio.

USE - For rubber strings and elastic members in base fabrics of disposable diaper and moist cloth materials including sanitation materials, disposable pocket body warmers, stretch tape, gloves, supporters and clothing goods.

ADVANTAGE - A laminated body having an excellent air permeability and flexibility with large tensile strength can be cheaply manufactured with excellent process ability by virtue of elasticity horizontally and small expansion vertically.
DESCRIPTION OF DRAWING(S) - The drawing shows the model cross sections of a core sheath type composite fiber.

Term	Documents
JP-11158766-$	0
JP-11158766-A.DWPI.	1
JP-11158766-$.DID..DWPI.	1
(JP-11158766-$.DID.).DWPI.	1

Display Format: REV Change Format

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6272687 B1

L1: Entry 1 of 3 File: USPT

US-PAT-NO: 6272687
DOCUMENT-IDENTIFIER: US 6272687 B1

TITLE: Puncture proof surgical gloves

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cunningham; Frank W.	Rancho Palos Verdes	CA	90275	

US-CL-CURRENT: 2/161.7; 2/16, 2/169, 428/911

ABSTRACT:

A puncture proof surgical glove and methods for producing the puncture proof glove are provided. The puncture proof glove provides flexibility and elasticity and protects against dangerous puncture wounds from needles and scalpels. The puncture proof surgical glove includes a first glove and second glove that each include a first pattern cut from a first material in a shape, a first layered stack of a plurality of patterned sheets, each of the plurality of patterned sheets cut from a second material in the first shape and having multiple line cuts through the second material, a second pattern cut from the first material in the first shape, and a third pattern cut in the first shape. The first pattern is layered on top of the first layered stack and the second pattern is layered on the bottom of the first layered stack and the first pattern and second pattern are bonded along their edges. The third pattern is then bonded to the edge of the bonded first and second patterns along an edge of the third pattern except for a portion of the edge to provide for an opening. The second glove is placed over the first glove so that the third pattern of the second glove is layered on top of the first pattern, and the bonded edge of the second glove overlaps the bonded edge of the first glove. Then the third pattern of the second glove is bonded to the first pattern of the first glove.

24 Claims, 35 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc | Image

☐ 2. Document ID: US 6266818 B1

L1: Entry 2 of 3 File: USPT

US-PAT-NO: 6266818

DOCUMENT-IDENTIFIER: US 6266818 B1

TITLE: Penetration resistant garment

DATE-ISSUED: July 31, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Howland; Charles A.	Weston	MA		
Howland; Virginia	Weston	MA		
Schroeder; Narain	Nashua	NH		

US-CL-CURRENT: 2/2.5; 428/911, 442/189

ABSTRACT:

A penetration resistant garment that may be comfortably worn by a user while offering protection against injury from a penetrating object, such as a water jet for example, includes a plurality of light-weight, rigid, discrete penetration resistant sections (30) cooperating with and arranged relative to one another to provide a flexible garment (20). The sections (30) may be layered in an overlapping manner to provide substantially complete coverage extending over an area of desired coverage. Also, a length of the garment may be less than a sum of the lengths of the individual sections (30).

97 Claims, 16 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

☐ 3. Document ID: US 5976996 A

L1: Entry 3 of 3 File: USPT

US-PAT-NO: 5976996
DOCUMENT-IDENTIFIER: US 5976996 A

TITLE: Protective fabric having high penetration resistance

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Howland; Charles A.	Weston	MA		

US-CL-CURRENT: 442/189; 139/383R, 2/2.5, 428/902, 428/911

ABSTRACT:

A protective fabric of high penetration resistance is formed from a plurality of layered, densely woven base fabrics, each formed by tightly weaving multifilament yarns to obtain a warp yarn "density" or "cover" in excess of 100% at the center of the fill yarn, and a fill yarn density or cover preferably also in excess of 75%. The yarns themselves preferably comprise a high modulus, high breaking strength yarn of materials such as Kevlar, Spectra, or Vectran. The resultant layered fabric offers especially high penetration resistance to weapons such as ice picks and the like. Additional resistance to penetration by sharp knives is provided by interruptedly

coating the base fabric with an epoxy in such a manner as to inhibit penetration while providing drapability and breathability.

5 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

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Term	Documents
"5976996".USPT.	3
5976996S	0
"5976996".USPT.	3
(5976996).USPT.	3

Display Format: REV | Change Format

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Search Results -

Term	Documents
(7 AND 14).USPT,PGPB.	46
(L7 AND L14).USPT,PGPB.	46

Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Search: L16

Refine Search

Recall Text | Clear

Search History

DATE: Saturday, August 17, 2002 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT,PGPB; PLUR=YES; OP=ADJ		
L16	l7 and l14	46	L16
L15	l14 and l12	2	L15
L14	l2 and l8 and l9	1415	L14
L13	l10 and l12	1	L13
L12	l5 and l6 and l9	383	L12
L11	l5 and l5 and l9	4056	L11
L10	l8 and l2 and l4	532	L10
L9	fibers or fibres	346002	L9
L8	elastic same (sheet or web)	21922	L8
L7	stretchable same composite same sheet	139	L7
L6	ethylene propylene butene	5006	L6
L5	ethylene propylene copolymer	10401	L5
L4	elastomer	80338	L4
L3	olefin or styrene or ester or urethane	405751	L3
L2	fibrous same (assembly or sheet or web)	20253	L2
L1	elastic same sheet	17397	L1

END OF SEARCH HISTORY

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=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 17 Aug 2002  VOL 137 ISS 8
FILE LAST UPDATED: 16 Aug 2002  (20020816/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

CAS roles have been modified effective December 16, 2001. Please
check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

=> s stretchable(l)composite (l) (sheet or web)
          1679 STRETCHABLE
        226892 COMPOSITE
        137137 COMPOSITES
        258666 COMPOSITE
                  (COMPOSITE OR COMPOSITES)
        222511 SHEET
        139918 SHEETS
        292121 SHEET
                  (SHEET OR SHEETS)
         20076 WEB
          5627 WEBS
         22558 WEB
                  (WEB OR WEBS)
L1           33 STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)

=> s fibrous assembly
          45061 FIBROUS
          98449 ASSEMBLY
          24646 ASSEMBLIES
         114076 ASSEMBLY
                  (ASSEMBLY OR ASSEMBLIES)
L2           70 FIBROUS ASSEMBLY
                  (FIBROUS(W)ASSEMBLY)

=> s fibrous (l) assembly (l)sheet
          45061 FIBROUS
          98449 ASSEMBLY
          24646 ASSEMBLIES
         114076 ASSEMBLY
                  (ASSEMBLY OR ASSEMBLIES)
        222511 SHEET
        139918 SHEETS
```

```
        292121 SHEET
                  (SHEET OR SHEETS)
L3         103 FIBROUS (L) ASSEMBLY (L)SHEET

=> s (fibers or fibres) (l) ethylene propylene copolymer
        442481 FIBERS
          1374 FIBRES
        397958 ETHYLENE
          3154 ETHYLENES
        399627 ETHYLENE
                  (ETHYLENE OR ETHYLENES)
        144349 PROPYLENE
           287 PROPYLENES
        144439 PROPYLENE
                  (PROPYLENE OR PROPYLENES)
        473081 COPOLYMER
        160320 COPOLYMERS
        515325 COPOLYMER
                  (COPOLYMER OR COPOLYMERS)
         15175 ETHYLENE PROPYLENE COPOLYMER
                  (ETHYLENE(W)PROPYLENE(W)COPOLYMER)
L4         558 (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER

=> s ethylene propylene butene
        397958 ETHYLENE
          3154 ETHYLENES
        399627 ETHYLENE
                  (ETHYLENE OR ETHYLENES)
        144349 PROPYLENE
           287 PROPYLENES
        144439 PROPYLENE
                  (PROPYLENE OR PROPYLENES)
         46412 BUTENE
          5494 BUTENES
         48201 BUTENE
                  (BUTENE OR BUTENES)
L5         141 ETHYLENE PROPYLENE BUTENE
                  (ETHYLENE(W)PROPYLENE(W)BUTENE)

=> d his

     (FILE 'HOME' ENTERED AT 13:24:20 ON 17 AUG 2002)

     FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
L1          33 S STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)
L2          70 S FIBROUS ASSEMBLY
L3         103 S FIBROUS (L) ASSEMBLY (L)SHEET
L4         558 S (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER
L5         141 S ETHYLENE PROPYLENE BUTENE

=> s sheet (l) inelastic (l) binding (l)spots
        222511 SHEET
        139918 SHEETS
        292121 SHEET
                  (SHEET OR SHEETS)
         55735 INELASTIC
            13 INELASTICS
         55735 INELASTIC
                  (INELASTIC OR INELASTICS)
        727076 BINDING
          1639 BINDINGS
        727528 BINDING
                  (BINDING OR BINDINGS)
         40891 SPOTS
L6           0 SHEET (L) INELASTIC (L) BINDING (L)SPOTS
```

```
=> s inelastic sheet
          55735 INELASTIC
             13 INELASTICS
          55735 INELASTIC
                  (INELASTIC OR INELASTICS)
         222511 SHEET
         139918 SHEETS
         292121 SHEET
                  (SHEET OR SHEETS)
L7            1 INELASTIC SHEET
                  (INELASTIC(W)SHEET)

=> s inelastic (l)sheet
          55735 INELASTIC
             13 INELASTICS
          55735 INELASTIC
                  (INELASTIC OR INELASTICS)
         222511 SHEET
         139918 SHEETS
         292121 SHEET
                  (SHEET OR SHEETS)
L8          152 INELASTIC (L)SHEET

=> d his

     (FILE 'HOME' ENTERED AT 13:24:20 ON 17 AUG 2002)

     FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
L1            33 S STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)
L2            70 S FIBROUS ASSEMBLY
L3           103 S FIBROUS (L) ASSEMBLY (L)SHEET
L4           558 S (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER
L5           141 S ETHYLENE PROPYLENE BUTENE
L6             0 S SHEET (L) INELASTIC (L) BINDING (L)SPOTS
L7             1 S INELASTIC SHEET
L8           152 S INELASTIC (L)SHEET

=> s l1 and l3 and l4
L9             1 L1 AND L3 AND L4

=> d bib,abs

L9   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
AN   2001:546070  CAPLUS
DN   135:108599
TI   Elastically stretchable composite sheets
     with high stretchability comprising laminates of a thermoplastic
     stretchable elastic sheet and a nonwoven sheet
     comprising fibers consisting of propylene polymers having inelastic
     stretchability and intermittently joined to one or two surfaces of the
     elastic sheet
IN   Kobayashi, Toshio; Ohata, Hiroyuki
PA   Japan
SO   U.S. Pat. Appl. Publ., 9 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE          APPLICATION NO.  DATE
     ---------------    ----  --------      ---------------  --------
PI   US 2001009715       A1   20010726      US 2001-766275   20010119
     JP 2001200460       A2   20010727      JP 2000-11994    20000120
     BR 2001000345       A    20011009      BR 2001-345      20010119
     CN 1307857          A    20010815      CN 2001-112332   20010120
```

PRAI JP 2000-11994 A 20000121

AB The **stretchable sheets** comprise laminates of an elastic **sheet** (A) having stretchability essentially in one or two directions orthogonal to each other and showing stretch in one direction .gtoreq.80%, and a **sheet**-like **fibrous assembly** (B) having an inelastic stretchability in one of the two directions and joined to .gtoreq.1 surface of A **sheet** at bonding sections arranged intermittently in the two directions and comprising component **fibers** each consisting of **ethylene-propylene copolymer** (I) contg. 0.5-10% ethylene units, butene-**ethylene-propylene copolymer** (II) contg. 0.5-10% ethylene units and 0.5-15% butene units, or a mixt. comprising 100-10% two polymers from I and II. The **composite sheets** are prepd. by the steps comprising the steps of (a) continuously feeding together A **web** comprising thermoplastic polymers and B **web** exhibiting breaking extension .gtoreq.150% in one direction and placing A **web** upon B **web**, (b) joining A **web** and B **web** intermittently in one direction and in the direction orthogonal to the first direction and essentially joining the **webs** in one direction, (c) stretching the **webs** at a stretch within the elasticity limit of A **web** and smaller than the breaking extension of B **web**, and (e) keeping the **composite** to cause contraction of the **composite**. The **composite sheets** are useful for disposable diapers, sanitary napkins, and disposable medical gowns.

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	46.94	47.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

FILE 'STNGUIDE' ENTERED AT 13:30:56 ON 17 AUG 2002

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 9, 2002 (20020809/UP).

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.12	47.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.62

STN INTERNATIONAL LOGOFF AT 13:31:52 ON 17 AUG 2002